

In the Claims:

Please cancel claims 1-9 and amend claim 10 as follows:

1-9. (Cancelled)

10. (Currently Amended) A method of ~~treating cancer by administering by intravenous drip, a composition of claim 5~~ acute promyelocytic leukemia in humans comprising the steps of:

(a) preparing an aqueous solution consisting of approximately 0.1% to 1.0% by weight arsenic trioxide and at least one pH-buffering agent selected from the group consisting of hydrochloric acid, alkali hydroxide, and carbonate solutions;

(b) sterilizing said aqueous solution to form an injectably administrable acute promyelocytic leukemia treating composition; and

(c) administering said composition as an intravenous drip to a human in need of treatment for acute promyelocytic leukemia.

Please add the following claims:

11. (New) The method of claim 10, wherein the at least one pH-buffering agent comprises hydrochloric acid and sodium hydroxide.

12. (New) A method of treating leukemia in humans comprising the steps of:

(a) preparing an aqueous solution consisting of approximately 0.1% to 1.0% by weight arsenic trioxide and at least one pH-buffering agent selected from the group consisting of hydrochloric acid, alkali hydroxide, and carbonate solutions;

(b) sterilizing said aqueous solution to form an injectably administrable leukemia treating composition; and

(c) administering said composition as an intravenous drip to a human in need of treatment for leukemia.

13. (New) The method of claim 12, wherein the at least one pH-buffering agent comprises hydrochloric acid and sodium hydroxide

14. (New) The method of claim 12, wherein the aqueous solution further consists of 0.8% by weight sodium chloride and 10% by weight glucose.

15. (New) The method of claim 12, wherein step (c) is repeated on a daily basis for approximately 2 to 4 weeks.

16 (New) The method of claim 12, further comprising, after the administering step, ceasing administration of the composition.

17. (New) The method of claim 16, wherein the administration and ceasing steps are repeated on a daily basis for approximately 2 to 4 weeks.